

CLAIMS:

1. A read and/or write head for an optical disk drive, comprising a lens holder, a support frame, means for suspending the lens holder in the support frame, which means constrain movement of the lens holder relative to the support frame, allowing only an at least limited translation in a focussing direction (z), parallel to the optical axis of a lens in the lens holder, an at least limited translation in a tracking direction (y), perpendicular to the focussing direction (z), and an at least limited rotation about an axis in a tangent direction (x), perpendicular to both the focussing and the tracking direction, and actuator means, comprising two conductive focussing coils with a winding axis parallel to the focussing direction (z), each positioned relative to a magnetic circuit in such a way that a current flowing through a coil gives rise to a force between the lens holder and the support frame in the focussing direction (z), the winding axes of the two focussing coils being positioned on opposite sides of a plane through the center of mass of the lens holder and parallel to the focussing and tangent direction, characterized in that the focussing coils are spaced apart in the tangent direction (x).
2. A read and/or write head according to claim 1, wherein the distance (d) between each winding axis of a focussing coil and the plane through the center of mass of the lens holder, and parallel to the focussing and the tangent direction, is smaller than the distance from the winding axis to the winding of each focussing coil in a lateral direction parallel to the tangent direction.
3. A read and/or write head according to claim 1 or 2, wherein the two focussing coils are point-symmetrically arranged relative to the center of mass of the lens holder.
4. A read and/or write head according to any one of claims 1 to 3, wherein the two focussing coils are mounted on the lens holder.

5. A read and/or write head according to any one of the preceding claims, wherein each magnetic circuit comprises a yoke extending at least partly through the corresponding focussing coil along its winding axis.
- 5 6. A read and/or write head according to claim 5, wherein each magnetic circuit forms a loop in a plane parallel to the focussing and the tangential direction and comprises an air gap through which the windings of the corresponding focussing coil can move, at least one radial coil being mounted on the lens holder and located in each air gap with a winding axis aligned with the flux through the magnetic circuit.
- 10 7. A read and/or write head according to claim 6, wherein two radial coils are mounted side by side in the tracking direction (y) in the air gap in each magnetic circuit.
8. A read and/or write head according to any one of the preceding claims,
- 15 wherein the suspension means comprise four wire members, each attached at one end to the lens holder and at the other end to the support frame.
9. A read and/or write head according to at least the claims 4 and 8, wherein the wire members are of an electrically conducting material and are electrically connected to the
- 20 coils.
10. A read/write head according to claim 8 or 9, wherein the wire members are provided with a cladding of an elastic material.
- 25 11. An optical disk drive comprising the read/write head according to any one of the preceding claims.